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B-1, 10 M HUB 1.8 M REMOTE

REMOTE TO HUB

LINK BUDGET PARAMETER	UNITS	CLEAR SKY	U/L FADE	D/L FADE	U/L, D/L FADE	OUTAGE FADE
PA POWER OUT / CARRIER	dBW	6.3	6.3	6.3	6.3	6.3
U/L PWR CONTROL RANGE	dB	NA	NA	NA	NA	NA
MAX CARRIER PWR W/UPC	dBW	6.3	6.3	6.3	6.3	6.3
W/G LOSS	dB	0.1	0.1	0.1	0.1	0.1
ANTENNA GAIN	dB	38.9	38.9	38.9	38.9	38.9
MISPOINTING LOSS	dB	0.5	0.5	0.5	0.5	0.5
EIRP TOWARDS SATELLITE	dBW	44.7	44.7	44.7	44.7	44.7
FREE SPACE LOSS	dB	199.2	199.2	199.2	199.2	199.2
U/L RAIN ATTENUATION	dB	0.0	1.0	0.0	1.0	1.0
ISOTROPIC PWR AT SAT	dBW/M^2	-154.5	-155.5	-154.5	-155.5	-155.5
SATELLITE G/T	dB/K	-7.0	-7.0	-7.0	-7.0	-7.0
BOLTZMAN'S CONSTANT	dBW/K-Hz	-228.6	-228.6	-228.6	-228.6	-228.6
U/L C/KT	dB-Hz	67.1	66.1	67.1	66.1	66.1
SATELLITE GAIN	dB	159.1	159.1	159.1	159.1	159.1
DOWNLINK EIRP	dBW	4.6	3.6	4.6	3.6	3.6
	WATTS	2.9	2.3	2.9	2.3	2.3
SATELLITE C/IMo	dB-Hz	58.6	57.6	58.6	57.6	57.6
FREE SPACE LOSS	dB	195.2	195.2	195.2	195.2	195.2
D/L RAIN ATTENUATION	dB	NA	NA	1.0	1.0	1.0
MISPOINTING LOSS	dB	0.5	0.5	0.5	0.5	0.5
BOLTZMAN'S CONSTANT	dBW/K-Hz	-228.6	-228.6	-228.6	-228.6	-228.6
SYSTEM TEMPERATURE	K	135	135	179	179	179
G/T	dB/K	29.5	29.5	28.3	28.3	28.3
D/L C/KT	dB-Hz	67.0	66.0	64.8	63.8	63.8
C/KT REQUIRED	dB-Hz	56.5	56.5	56.5	56.5	56.5
C/KT AVAILABLE	dB-Hz	57.5	56.5	57.2	56.2	56.2
LINK MARGIN	dB	1.0	0.0	0.7	-0.3	-0.3
DOWNLINK EIRP MEASURED AT REFERENCE STATION	dBW	4.6	3.6	4.6	3.6	3.6
	WATTS	2.9	2.3	2.9	2.3	2.3
FCC PWR DENSITY LIMIT PER 4 kHz INTO FEED	dBW	-14.0	-14.0	-14.0	-14.0	-14.0
PWR DENSITY INTO FEED PER 4 kHz	dBW	-8.3	-8.3	-8.3	-8.3	-8.3
PWR DENSITY INTO FEED PER 4 kHz MARGIN	dBW	-5.7	-5.7	-5.7	-5.7	-5.7
FCC SAT EIRP PWR DNSTY LIMIT PER 4 kHz	dBW	6.0	6.0	6.0	6.0	6.0
SAT EIRP PWR DENSITY PER 4 kHz	dBW	-9.9	-10.9	-9.9	-10.9	-10.9
SAT EIRP PWR DENSITY PER 4 kHz MARGIN	dBW	15.9	16.9	15.9	16.9	16.9

1.8M VSAT ANTENNA SPECIFICATIONS

CTRICAL

Effective Aperture	2.4M Dia.(96.0 inch dia.)
Operating Frequency, Rx	3.7 - 4.2 GHz
Tx	5.925 - 6.425 GHz
Midband Gain, Rx	37.6 dBi at 3.95 GHz, Min.
Tx	41.6 dBi at 6.175 GHz, Min
Polarization	Linear, (cross pol or co-pol), circular
Isolation Tx & Rx	> 70 dB
Sidelobe Envelope, Co-Pol (dBi)	
Mainbeam < θ < 7°	29 - 25 Log θ dBi
7° < θ < 9.2°	+8 dBi
9.2° < θ < 48°	32 - 25 Log θ dBi
48°< θ < 180°	- 10 dBi
Cross-Pol Response (On Axis)	30 dB below Co-pol
VSWR (Rx Tx)	1.3:1 Max
Transmit Interface	Type "N" Female
Receive Interface	CPR 229G
Antenna Noise Temperature (at output of OMT)	
at 10° elevation	40.4°K
at 20° elevation	27.3°K
at 30° elevation	22.8°K